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PRIORITY

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1968 FEB 29 23 34Z

		TOP SECRET		British from Jampjerding And soulfing	etanetic - est
					25X1
THROUG WELL D	3148 T O P S E 3148 T O P S E 3158 T O P S E	HT VEILING ON THE , SIMILAR TO 1044 IS NOT HINDER DAT	A REDUCTION.	HORIZON S STILL	25X1
	ACTION: DETERMINE POSSI	BLE CAUSES (MONI	TORS:		25X1 25X ²
H. O. OCCURR II FRA THIS A AFFLIO	A. ANOMALY: THE FIDUCI FORMATS FOR A SHORT SEG ED ON THE THIRD FRAME C MES LATER ON THE THIRD MOMALY DID NOT HINDER F CTED AREA. CAUSE: UNKNOWN.	MENT OF THE FIRS OF THE LAST OPERA FRAME OF THE FIR	TT MISSION. THE TION ON REV 8 AM ST OPERATION ON	ANOMALY ID ENDED REV 9.	•
THIS MISSION PROVIDED A NEAR TROUBLE FREE PERFORMANCE OF THE CORONA CAMERA SERIES. THE PHOTOINTERPRETERS AND THE PET CONSIDER THE BEST QUALITY PHOTOGRAPHY OF MISSION 1045 TO BE COMPARABLE TO THE BEST EVER ATTAINED BY THE J-1 CAMERA SYSTEM. HOWEVER, AS USUAL, THE OVERALL QUALITY IS VARIABLE IN ASSOCIATION WITH ATMOSPHERIC ATTENUATION AND SOLAR POSITION. 4. ANOMALIES: THE PROBLEMS REPORTED WERE GENERALLY OF A CHARACTERISTIC NATURE.					
۷.	CAMERA SETTINGS			3,4 1000	
MSN 10 RECOVE	045-1, S/I NO: 045-2, S/I NO: ORY REVS:	D109/137/138 D108/139/141 MSN 1045-1, 112 MSN 1045-2, 223		PPAU Security	
CAMERA PAN CA	A SYSTEM: AMERA NO:	J-45 (PG-7) FORWARD-LOOKING AFT-LOOKING, 21		Cy No. Office File Cable Sco	Action
LAUNCH	H DATE AND TIME: LE NUMBER:	1045-1, 24-31 JANUARY 1968 1045-2, 31 JANUARY - 7 FEBRUARY 1968 24 JANUARY 1968/2226Z 1640 DISTR			N Z
1.	A 9252 B 9312 NUMERICAL SUMMARY D AND DATES:	1045-1 04-31 1	IANHARY 1969		23/1
CORONA SUBJ:	MISSION 1045 PHOTOGRAF	PHIC EVALUATION I	INTERIM REPORT (F	'E IR)	25X1
T O P PRIORI	SECRET 292257Z FEE	3 68 CITE	3148		25X1 25X1

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SYSTEMS; INVESTIGATION HAS FAILED TO ESTABLISH A DEFINITE CAUSE.

ACTION: NO NEW ACTION AT THIS TIME.

C. ANOMALY: APPROXIMATELY 11 INDEX AND 23 STELLAR FRAMES ARE MISSING FROM THE END OF 1045-1. THE LAST RECOVERED PHOTOGRAPHY WAS CUT IN MID-FRAME.

CAUSE: THE APPARENT CAUSE OF THIS ANOMALY WAS EITHER LACK OF SLEW SIGNAL OR FAILURE OF THE S/I UNIT TO RESPOND TO THAT SIGNAL. NO EVIDENCE OF THE BACKUP CUTTER ACTION WAS NOTED; THE CUT WAS MADE BY THE WATERSEAL. NO T/M DATA ARE AVAILABLE DUE TO LINK ONE FAILURE.

ACTION: INVESTIGATE POSSIBLE FAILURE MODES (MONITORS:

25X1

25X1

D. ANOMALY: THE LENS PG TRACES WERE INOPERATIVE ON PORTIONS OF SOME PROGRAMMED Z.I. PASSES.

CAUSE: UNKNOWN. FOR ONE PASS BOTH CAMERAS OPERATED

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PROPERLY. ON THE ADDITIONAL PASSES, ONLY THE FWD CAMERA
CONTINUED TO RESPOND PROPERLY. THE AFT CAMERA TRACES FOR
THESE ADDITIONAL PASSES DISAPPEARED AFTER 2-3 CYCLES OF
OPERATION.

ACTION: NO ACTION TO BE TAKEN PENDING A DECISION ON QUESTION OF CONTINUED USE OF PG CAPABILITY FOR FUTURE J-1 FLIGHTS.

E. ANOMALY: LIGHT BANDING OCCURS INTERMITTENTLY NEAR THE SCAN START END OF SOME FRAMES.

CAUSE: THE BANDING IS APPARENTLY CAUSED BY IRREGULAR SCAN ARM MOTION NEAR SCAN START: NO IMAGE SMEAR WAS APPARENT IN THE BANDED REGIONS. TENDENCY TOWARDS BANDING WAS OBSERVED DURING PREFLIGHT TESTING, BUT WAIVER RECOMMENDED BECAUSE OF APPARENT MINOR EFFECT, BANDING IS MORE PREDOMINANT IN PG SYSTEMS BECAUSE OF MECHANISM BALANCE AND TIMING CHARACTERISTIC.

ACTION: NONE. MINOR BANDING IS CHARACTERISTIC OF INSTRU-MENT OPERATION.

F. ANOMALY: THE FIRST SEGMENT OF 1045-2 STELLAR RECORD PRESENTS AN ANOMALISTIC APPEARANCE. TITLED FRAME 001 APPEARS NORMAL. FRAMES 002 THRU 006 APPEAR DENSE, WITH EVIDENCE OF OPEN SHUTTER DURING

PAGE 5 3148 T O P S E C R E T
TRANSPORT; THE RESEAU WAS SHARPLY IMAGED BETWEEN FRAMES. IMMEDIATELY
PRIOR TO FRAME ØØ1 ARE SEVEN VERY DENSE EXPOSURES. STELLAR FRAME
ØØ1 CORRESPONDS TO INDEX FRAME ØØ1, THE FIRST FRAME OF PASS D104.
CAUSE: UNKNOWN.

ACTION: DETERMINE PROBABLE CAUSES. (MONITOR:

25**X**1

5. COMMENTS

A. THE IMPROVED PHOTOGRAPHY (MIP-90) IS ATTRIBUTED PRIMA

A. THE IMPROVED PHOTOGRAPHY (MIP-90) IS ATTRIBUTED PRIMARILY TO THE ADJUSTED CAMERA FOCAL POSITION AND TO FAVORABLE WEATHER CONDITIONS.

B. THE AFT-LOOKING CAMERA PRODUCED THE BETTER IMAGERY WITH CORN TARGET RESOLUTION OF THE FORWARD CAMERA IMAGERY IS MORE TYPICAL OF PAST J-1 SYSTEM PERFORMANCE, WITH RESOLU-

25X1

25X1

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TION 25X1

25X1

C. UNDER HIGH MAGNIFICATION (100X), MINOR SMEAR IN THE FMC DIRECTION IS DETECTABLE IN THE FORWARD RECORD. IN ONE INSTANCE, SWEPT-WING AIRCRAFT ON A FLIGHT LINE LOST THE WING TAPER ON THE FORWARD IMAGERY.

D. MISSION 1045 (CAMERA SYSTEM J-45) WAS A PG (PAN GEOMETRY) SYSTEM. AS FAR AS THE PET CAN ASSESS, THE PG ASPECTS OF THE J-1 SYSTEM ARE NOT GOING TO BE USED BY THE COMMUNITY. IF THIS IS SO,

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WE WOULD RECOMMEND THAT ALL PG ASPECTS OF THE REMAINING TWO PG
J-1 CAMERAS BE DISABLED. DOING SO WOULD EASE THE TITLING PROBLEMS
AT AS PG SYSTEMS REQUIRE BETWEEN FRAME TITLING WHICH IS MORE
TIME CONSUMING THAN THE NORMAL EDGE TITLING. REACTION FROM THE
COMMUNITY ON THIS QUESTION IS DESIRED. IT IS RECOMMENDED THAT
REPRESENTATIVES FROM THE COMMUNITY BE PREPARED TO DISCUSS THIS
QUESTION AT THE APRIL PIM MEETING.
TOPSECRE

END OF MESSAGE